

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

Listing of Claims:

Claim 1 (Previously Presented): An image forming apparatus comprising:

a charger that charges a body with a voltage in which an AC voltage is superimposed on an DC voltage, wherein the charger is not in contact with the body;

a humidity detecting unit that detects a humidity in a space between the charger and the body;

a correcting unit that decides a magnitude of the AC voltage to be superimposed on the DC voltage based on the humidity;

a current detecting unit that detects direct current; and

a control unit that varies the magnitude of the AC voltage in accordance with the current detected and the humidity.

Claim 2 (Cancelled).

Claim 3 (Original): The image forming apparatus according to claim 1, wherein the control unit varies the magnitude of the AC voltage if a change in the humidity exceeds a predetermined value.

Claim 4 (Original): The image forming apparatus according to claim 1, wherein the control unit varies the magnitude of the AC voltage after elapsing of prescribed time upon a power supply to the control unit is turned ON.

Claim 5 (Original): The image forming apparatus according to claim 1, wherein the control unit varies the magnitude of the AC voltage upon passage of prescribed number of papers.

Claim 6 (Previously Presented): The image forming apparatus according to claim 1, wherein the control unit carries out bias change of the AC voltage and sets the bias to a fixed value during image forming either of when an area corresponding to a non-image area on a latent image carrier is charged and when a charging bias is not applied.

Claim 7 (Original): The image forming apparatus according to claim 1, wherein the charger is a roller that includes a material having a medium electric resistance.

Claim 8 (Previously Presented): The image forming apparatus according to claim 1, wherein the control unit changes bias of the AC voltage by a feed back control in accordance with the humidity.

Claim 9 (Previously Presented): An image forming apparatus comprising:
a charger that charges a body with a voltage in which an AC voltage is superimposed on an DC voltage, wherein the charger is not in contact with the body;
a humidity detecting unit that detects a humidity in a space between the charger and the body;
a temperature detecting unit that detects a temperature in the space between the charger and the body;
a correcting unit that decides a magnitude of the AC voltage to be superimposed on the DC voltage based on at least one of the humidity and the temperature;

a current detecting unit that detects direct current; and
a control unit that varies the magnitude of the AC voltage in accordance with the current detected and the humidity and the temperature.

Claim 10 (Cancelled).

Claim 11 (Original): The image forming apparatus according to claim 9, wherein the control unit varies the magnitude of the AC voltage if a change in any one of the humidity and the temperature exceeds a predetermined value.

Claim 12 (Original): The image forming apparatus according to claim 9, wherein the control unit varies the magnitude of the AC voltage after elapsing of prescribed time upon a power supply to the control unit is turned ON.

Claim 13 (Original): The image forming apparatus according to claim 9, wherein the control unit varies the magnitude of the AC voltage upon passage of prescribed number of papers.

Claim 14 (Previously Presented): The image forming apparatus according to claim 9, wherein the control unit carries out bias change of the AC voltage and sets the bias to a fixed value during image forming either of when an area corresponding to a non-image area on a latent image carrier is charged and when a charging bias is not applied.

Claim 15 (Original): The image forming apparatus according to claim 9, wherein the charger is a roller that includes a material having a medium electric resistance.

Claim 16 (Previously Presented) The image forming apparatus according to claim 9, wherein the control unit changes bias of the AC voltage by a feed back control in accordance with any one of the humidity and the temperature.

Claim 17 (Previously Presented): A method of forming image comprising:
detecting a humidity in a space between a charger and a body, wherein the charger charges the body with a voltage in which an AC voltage is superimposed on an DC voltage;
deciding a magnitude of the AC voltage to be superimposed on the DC voltage based on the humidity;
detecting a direct current; and
varying the magnitude of the AC voltage in accordance with the current detected and the humidity.

Claim 18 (Cancelled).

Claim 19 (Previously Presented): The method according to claim 17, wherein the varying includes varying the magnitude of the AC voltage if a change in the humidity exceeds a predetermined value.

Claim 20 (Previously Presented): The method according to claim 17, wherein the varying includes varying the magnitude of the AC voltage after elapsing of prescribed time upon a power supply to the control unit is turned ON.

Claim 21 (Previously Presented): The method according to claim 17, wherein the varying includes varying the magnitude of the AC voltage passage of a prescribed number of papers.

Claim 22 (Previously Presented): The method according to claim 17, wherein the varying includes varying changing a bias of the AC voltage and setting of a bias to a fixed value during image formation either of when an area corresponding to a non-image area on a latent image carrier is charged and when a charging bias is not applied.

Claim 23 (Previously Presented): The method according to claim 17, wherein the changing of the bias of the AC voltage includes performing feed back control in accordance with the humidity.

Claim 24 (Previously Presented): A method of forming image comprising:
detecting a humidity and a temperature in a space between a charger and a body,
wherein the charger charges the body with a voltage in which an AC voltage is superimposed on an DC voltage;

deciding a magnitude of the AC voltage to be superimposed on the DC voltage based on at least one of the humidity and the temperature;

detecting a direct current; and

varying the magnitude of the AC voltage in accordance with the current detected and the humidity.

Claim 25 (Cancelled).

Claim 26 (Previously Presented): The method according to claim 24, wherein the varying includes varying the magnitude of the AC voltage if a change in the humidity exceeds a predetermined value.

Claim 27 (Previously Presented): The method according to claim 24, wherein the varying includes varying the magnitude of the AC voltage after elapsing of prescribed time upon a power supply to the control unit is turned ON.

Claim 28 (Previously Presented): The method according to claim 24, wherein the varying includes varying the magnitude of the AC voltage upon passage of a prescribed number of papers.

Claim 29 (Previously Presented): The method according to claim 24, wherein the varying includes varying changing a bias of the AC voltage and setting of a bias to a fixed value during image formation either of when an area corresponding to a non-image area on a latent image carrier is charged and when a charging bias is not applied.

Claim 30 (Previously Presented): The method according to claim 24, wherein the changing of the bias of the AC voltage includes performing feed back control in accordance with the humidity.

Claim 31 (Cancelled).